# 4.9 normal distribution and calculations\_P\_1

**1a.** *[2 marks]*

## Markscheme

\* This question is from an exam for a previous syllabus, and may contain minor differences in marking or structure.

use of symmetry *eg* diagram       ***(M1)***

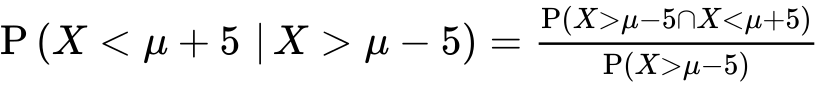
       ***A1***

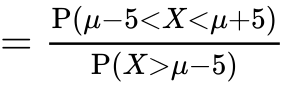
***[2 marks]***

**1b.** *[5 marks]*

## Markscheme

**EITHER**

       ***(M1)***

       ***(A1)***

      ***A1A1***

**Note:** ***A1*** for denominator is independent of the previous ***A*** marks.

**OR**

use of diagram       ***(M1)***

**Note:** Only award ***(M1)*** if the region  is indicated and used.

             ***(A1)***

**Note:** Probabilities can be shown on the diagram.

      ***M1A1***

**THEN**

      ***A1***

***[5 marks]***

Printed for SANSKAR SCHOOL

© International Baccalaureate Organization 2019

International Baccalaureate® - Baccalauréat International® - Bachillerato Internacional®